

## EAST Search History

| Ref # | Hits | Search Query                                                                                                                                                                                                                                                                                                             | DBs                                                                        | Default Operator | Plurals | Time Stamp       |
|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------|---------|------------------|
| L7    | 17   | (US-5108692-\$ or US-4822552-\$ or US-4647420-\$ or US-4229654-\$ or US-4394895-\$ or US-4554128-\$ or US-4522276-\$ or US-4291227-\$ or US-4277680-\$ or US-6704385-\$ or US-3662882-\$ or US-6359280-\$ or US-3767915-\$ or US-6297507-\$ or US-4104523-\$ or US-5317158-\$ or US-5962855-\$).did.                     | USPAT                                                                      | OR               | OFF     | 2006/12/19 15:16 |
| L8    | 6    | L7 and alpha                                                                                                                                                                                                                                                                                                             | USPAT                                                                      | OR               | OFF     | 2006/12/19 15:26 |
| L9    | 3    | "6297507"                                                                                                                                                                                                                                                                                                                | USPAT                                                                      | OR               | OFF     | 2006/12/19 15:23 |
| L10   | 2    | "4902467"                                                                                                                                                                                                                                                                                                                | USPAT                                                                      | OR               | OFF     | 2006/12/19 15:26 |
| S1    | 3    | ((("4394895") or ("5108692") or ("4822552")).PN.                                                                                                                                                                                                                                                                         | USPAT;<br>USOCR                                                            | OR               | OFF     | 2006/12/18 13:06 |
| S2    | 14   | ("3728544"   "3755675"   "3786256"   "4134064"   "4229654"   "4243939"   "4347622"   "4564498"   "4647420"   "4663112"   "4822552").PN. OR ("5108692").URPN.                                                                                                                                                             | US-PGPUB;<br>USPAT;<br>USOCR                                               | OR               | OFF     | 2006/12/19 11:15 |
| S3    | 30   | ("3299268"   "3636353"   "3717765"   "3728544"   "3755675"   "3767919"   "3786256"   "3794843"   "3825753"   "4024017"   "4158769"   "4229654"   "4277680"   "4278885"   "4284893"   "4291227"   "4389568"   "4522276"   "4554128"   "4573847"   "4587407"   "4589082"   "4629600"   "4647420").PN. OR ("4822552").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                                               | OR               | OFF     | 2006/12/18 13:34 |
| S4    | 11   | ("0394161"   "0595890"   "3503424"   "3860038"   "4026329"   "4090534"   "4166363").PN. OR ("4394895").URPN.                                                                                                                                                                                                             | US-PGPUB;<br>USPAT;<br>USOCR                                               | OR               | OFF     | 2006/12/18 14:16 |
| S5    | 2    | ((("4822552") or ("5108692")).PN.                                                                                                                                                                                                                                                                                        | USPAT;<br>USOCR                                                            | OR               | OFF     | 2006/12/18 17:28 |
| S6    | 3411 | (376/159,257,245,261).CCLS.                                                                                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/12/19 11:15 |
| S7    | 17   | S6 and (detector same annular)                                                                                                                                                                                                                                                                                           | USPAT                                                                      | OR               | ON      | 2006/12/19 11:43 |

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|     |     |                                                                                    |                                                                            |    |    |                  |
|-----|-----|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----|----|------------------|
| S8  | 30  | S6 and (detector same annular)                                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:21 |
| S9  | 49  | S6 and (detector same alpha)                                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:23 |
| S10 | 19  | nuclear and fuel and rod and<br>scintillat\$4 and (alpha same<br>detector)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:36 |
| S11 | 2   | nuclear and fuel and (rod or<br>element) and (annular same alpha<br>same detector) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:37 |
| S12 | 48  | nuclear and fuel and (rod or<br>element) and (annular same alpha)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:39 |
| S13 | 0   | alpha and "ZnS(Ag)" and<br>scintillation and nuclear and fuel                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:40 |
| S14 | 528 | alpha and scintillat\$4 and nuclear<br>and fuel                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/12/19 11:40 |

## EAST Search History

|     |     |                                                                                                       |                                                                            |    |     |                  |
|-----|-----|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----|-----|------------------|
| S15 | 18  | alpha and scintillat\$4 and nuclear and fuel and photomultiplier and annular                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/12/19 11:41 |
| S16 | 9   | S6 and (mox near (fuel or rod or element))                                                            | USPAT                                                                      | OR | ON  | 2006/12/19 11:45 |
| S17 | 15  | S6 and ((mox or "mixed oxide") same (fuel or rod or element)) and (detect\$3 or quality or measur\$3) | USPAT                                                                      | OR | ON  | 2006/12/19 11:50 |
| S18 | 911 | (250/370.02,370.11).CCLS.                                                                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/12/19 11:50 |
| S19 | 9   | S18 and annular and nuclear                                                                           | USPAT                                                                      | OR | OFF | 2006/12/19 11:53 |
| S20 | 3   | S18 and (annular same alpha)                                                                          | USPAT                                                                      | OR | OFF | 2006/12/19 11:57 |
| S21 | 2   | ("5317158").PN.                                                                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/12/19 12:01 |
| S22 | 18  | ("2910592"   "3032659"   "3988586"   "5006713"   "5149971").PN. OR ("5317158").URPN.                  | US-PGPUB;<br>USPAT;<br>USOCR                                               | OR | OFF | 2006/12/19 11:58 |
| S23 | 614 | (250/367).CCLS.                                                                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/12/19 12:01 |
| S24 | 2   | S23 and (fuel adj (rod or element))                                                                   | USPAT                                                                      | OR | OFF | 2006/12/19 12:01 |